

# ÖLFLEX® VFD 2XL with Signal

Flexible VFD cable with a control pair; 600V/1000V/2000V; UL & c(UL) TC-ER approval

LAPP KABEL STUÏGART ÖLFLEX® VFD 2XL with Signal



ÖLFLEX® VFD 2XL with Signal is a robust oil- and UV-resistant shielded motor cable for VFD drives, with a pair for brake or temperature sensor. The XLPE (plus) insulation with enhanced electrical properties can withstand twice the dielectric voltage test, provides extended performance, and is suitable for 2kV applications.

## Recommended applications

VFD drive and motor connections; pumps; compressors; conveyors; elevators; extruders; presses; HVAC; on/off, slow down/speed up applications

## Approvals



## Construction

**Conductors:** finely stranded tinned copper

**Insulation:** XLPE (plus)

**Shielding:** barrier tape; triple layer foil tape (100% coverage); tinned copper braid (85% coverage)

**Jacket:** specially formulated thermoplastic elastomer (TPE); black

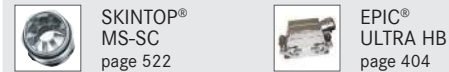
## Application Advantage

- One cable for applications up to 2kV
- Low capacitance design
- Industrial grade phthalate-free jacket designed for harsh environments
- UL TC-ER & c(UL) CIC/TC approved
- Reduces space and weight in tray
- No conduit required due to TC-ER rating

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	OIL	OR-03		FLAME	FR-03
	MOTION	FL-01		MECH.	MP-03

Complete the installation



## Technical data

	<b>Minimum bend radius:</b>	7.5 x cable diameter		<b>Color code:</b>	black with white numbers, plus green/yellow ground and one black pair with white numbers
	<b>Temperature range:</b>	-25°C to +90°C - for stationary use: -40°C to +105°C - for flexible use: -25°C to +105°C		<b>Approvals:</b>	UL: TC-ER per UL 1277 Attributes: UL Oil Res I/II 90°C wet or dry -40°C cold bend; -25°C cold impact sunlight resistant direct burial NFPA 79 NEC: Class 1 Division 2 per NEC Article 501 Canada: c(UL) CIC/TC FT4 cRU AWM I/II A/B FT4 Additional: CE (50V - 1kV) & RoHS
	<b>Nominal voltage:</b>	- UL TC: 600V/2000V - UL Flexible Motor Supply: 1000V - c(UL) CIC/TC: 600V - cRU AWM: 1000V			
	<b>Test voltage:</b>	6000V			
	<b>Conductor stranding:</b>	- 16 - 6 AWG: Class 5 fine wire - 4 - 2 AWG: Class K fine wire			

Part number	Number of conductors incl. ground	Nominal outer diameter in mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread	SKINTOP® MS-M BRUSH metric thread
<b>16 AWG (1.5 mm²)</b>						
700710	4 + (18 AWG)	0.652	16.6	91	200	53112250 53112677
<b>14 AWG (2.5 mm²)</b>						
700711	4 + (18 AWG)	0.687	17.4	132	252	53112250 53112677
<b>12 AWG (4 mm²)</b>						
700712	4 + (18 AWG)	0.752	19.1	160	294	53112260 53112677
<b>10 AWG (6 mm²)</b>						
700713	4 + (18 AWG)	0.798	20.3	215	354	53112260 53112677

Part number	Number of conductors incl. ground	Nominal outer diameter in mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread	SKINTOP® MS-M BRUSH metric thread
<b>8 AWG (10 mm²)</b>						
700714	4 + (14 AWG)	0.986	25.0	334	690	53112270 53112678
<b>6 AWG (16 mm²)</b>						
700715	4 + (14 AWG)	1.112	28.2	504	905	53112270 53112679
<b>4 AWG (21 mm²)</b>						
700716	4 + (14 AWG)	1.259	32.0	667	1125	— 53112679
<b>2 AWG (33.7 mm²)</b>						
700717	4 + (14 AWG)	1.403	35.6	1027	1580	— 53112680

( ) = shielded pair

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Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.